

What is claimed is:

1. An electrochemical sensor having a working electrode, a counter electrode and a reference electrode, wherein a means for examining the reference electrode is provided for examining an electric potential of the reference electrode.

2. The electrochemical sensor as claimed in Claim 1, wherein an immobilized enzyme layer is formed at least on the working electrode.

3. The electrochemical sensor as claimed in Claim 2, wherein a diffusion-limiting layer containing fluoroalcohol ester of polycarboxylic acid, which is formed so as to cover at least the working electrode and the reference electrode, is provided on the immobilized enzyme layer.

4. The electrochemical sensor as claimed in Claim 1, wherein a spare reference electrode is provided for use in place of the reference electrode when the means for examining the reference electrode detects an abnormal electric potential of the reference electrode.

5. The electrochemical sensor as claimed in Claim 4, wherein an immobilized enzyme layer is formed at

least on the working electrode.

6. The electrochemical sensor as claimed in Claim 5, wherein a diffusion-limiting layer containing fluoroalcohol ester of polycarboxylic acid, which is formed so as to cover at least the working electrode and the reference electrode, is provided on the immobilized enzyme layer.

7. The electrochemical sensor as claimed in Claim 4, wherein a means for switching the reference electrode is provided by which the spare reference electrode is used in place of the reference electrode when the abnormal electric potential is detected by the means for examining the reference electrode.

8. The electrochemical sensor as claimed in Claim 7, wherein an immobilized enzyme layer is formed at least on the working electrode.

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9. The electrochemical sensor as claimed in Claim 8, wherein a diffusion-limiting layer containing fluoroalcohol ester of polycarboxylic acid, which is formed so as to cover at least the working electrode and the reference electrode, is provided on the immobilized enzyme layer.

10. The electrochemical sensor as claimed in Claim  
4, wherein a means for informing is provided to inform  
the time of replacing the reference electrode when the  
5 abnormal electric potential is detected by the means for  
examining the reference electrode.

11. The electrochemical sensor as claimed in Claim  
10, wherein an immobilized enzyme layer is formed at  
10 least on the working electrode.

12. The electrochemical sensor as claimed in Claim  
11, wherein a diffusion-limiting layer containing  
fluoroalcohol ester of polycarboxylic acid, which is  
15 formed so as to cover at least the working electrode and  
the reference electrode, is provided on the immobilized  
enzyme layer.

13. The electrochemical sensor as claimed in Claim  
20 10, wherein a means for switching the reference  
electrode is provided by which the spare reference  
electrode is used in place of the reference electrode  
when the abnormal electric potential is detected by the  
examining measures of the reference electrode.

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14. The electrochemical sensor as claimed in Claim

13, wherein an immobilized enzyme layer is formed at least on the working electrode.

15. The electrochemical sensor as claimed in Claim 14, wherein a diffusion-limiting layer containing fluoroalcohol ester of polycarboxylic acid, which is formed so as to cover at least the working electrode and the reference electrode, is provided on the immobilized enzyme layer.

16. The electrochemical sensor as claimed in Claim 1, wherein the means for examining the reference electrode comprises having an examining electrode as a standard to measure the electric potential of the reference electrode and a measuring apparatus by which a potential difference between the examining electrode and the reference electrode is measured.

17. The electrochemical sensor as claimed in Claim 16, wherein an immobilized enzyme layer is formed at least on the working electrode.

18. The electrochemical sensor as claimed in Claim 17, wherein a diffusion-limiting layer containing fluoroalcohol ester of polycarboxylic acid, which is formed so as to cover at least the working electrode and

the reference electrode, is provided on the immobilized enzyme layer.

19. The electrochemical sensor as claimed in Claim 5 16, wherein a spare reference electrode is provided for use in place of the reference electrode when the means for examining the reference electrode detects an abnormal electric potential of the reference electrode.

10 20. The electrochemical sensor as claimed in Claim 19, wherein an immobilized enzyme layer is formed at least on the working electrode.

15 21. The electrochemical sensor as claimed in Claim 20, wherein a diffusion-limiting layer containing fluoroalcohol ester of polycarboxylic acid, which is formed so as to cover at least the working electrode and the reference electrode, is provided on the immobilized enzyme layer.

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22. The electrochemical sensor as claimed in Claim 19, wherein a means for switching the reference electrode is provided by which the spare reference electrode is used in place of the reference electrode 25 when the abnormal electric potential is detected by the means for examining the reference electrode.

23. The electrochemical sensor as claimed in Claim 22, wherein an immobilized enzyme layer is formed at least on the working electrode.

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24. The electrochemical sensor as claimed in Claim 23, wherein a diffusion-limiting layer containing fluoroalcohol ester of polycarboxylic acid, which is formed so as to cover at least the working electrode and the reference electrode, is provided on the immobilized enzyme layer.

25. The electrochemical sensor as claimed in Claim 19, wherein a means for informing is provided to inform the time of replacing the reference electrode when the abnormal electric potential is detected by the means for examining the reference electrode.

26. The electrochemical sensor as claimed in Claim 25, wherein an immobilized enzyme layer is formed at least on the working electrode.

27. The electrochemical sensor as claimed in Claim 26, wherein a diffusion-limiting layer containing fluoroalcohol ester of polycarboxylic acid, which is formed so as to cover at least the working electrode and

the reference electrode, is provided on the immobilized enzyme layer.

28. The electrochemical sensor as claimed in Claim 25, wherein a means for switching the reference electrode is provided by which the spare reference electrode is used in place of the reference electrode when the abnormal electric potential is detected by the means for examining the reference electrode.

29. The electrochemical sensor as claimed in Claim 28, wherein an immobilized enzyme layer is formed at least on the working electrode.

30. The electrochemical sensor as claimed in Claim 29, wherein a diffusion-limiting layer containing fluoroalcohol ester of polycarboxylic acid, which is formed so as to cover at least the working electrode and the reference electrode, is provided on the immobilized enzyme layer.

31. An electrochemical sensor having a working electrode, a counter electrode and a reference electrode, wherein a spare electrode is provided for use in place of the reference electrode when a use of the reference electrode is stopped.

32. The electrochemical sensor as claimed in Claim 31, wherein an immobilized enzyme layer is formed at least on the working electrode.

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33. The electrochemical sensor as claimed in Claim 32, wherein a diffusion-limiting layer containing fluoroalcohol ester of polycarboxylic acid, which is formed so as to cover at least the working electrode and the reference electrode, is provided on the immobilized enzyme layer.

34. The electrochemical sensor as claimed in Claim 31, wherein a means for switching the reference electrode is provided by which the spare reference electrode is used in place of the reference electrode when the use of the reference electrode is stopped.

35. The electrochemical sensor as claimed in Claim 34, wherein an immobilized enzyme layer is formed at least on the working electrode.

36. The electrochemical sensor as claimed in Claim 35, wherein a diffusion-limiting layer containing fluoroalcohol ester of polycarboxylic acid, which is formed so as to cover at least the working electrode and



the reference electrode, is provided on the immobilized enzyme layer.

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